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**MARKED UP VERSION SHOWING THE CHANGES.**

SEQUENCE LISTING

<110> BERNSTEIN, Harold S.  
COUGHLIN, Shaun R.

<120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE  
PROGRESSION

<130> UCSF-020/02US

<140> Not Yet Available

<141> 2001-01-08

<150> US 09/156,316

<151> 1998-09-18

<150> US 60/060,688

<151> 1997-09-22

<160> [46] 50

<170> PatentIn Ver. 2.1

<210> 1

<211> 802

<212> PRT

<213> Homo sapiens

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			20					25					30		

Arg	Ile	Ala	Ser	Leu	Leu	His	Arg	Lys	Ser	Ala	Lys	Gln	Cys	Lys	Ala
		35					40					45			

Arg	Trp	Tyr	Glu	Trp	Leu	Asp	Pro	Ser	Ile	Lys	Lys	Thr	Glu	Trp	Ser
	50					55					60				

Arg	Glu	Glu	Glu	Glu	Lys	Leu	Leu	His	Leu	Ala	Lys	Leu	Met	Pro	Thr
65					70					75				80	

Gln	Trp	Arg	Thr	Ile	Ala	Pro	Ile	Ile	Gly	Arg	Thr	Ala	Ala	Gln	Cys
				85					90					95	

Leu	Glu	His	Tyr	Glu	Phe	Leu	Leu	Asp	Lys	Ala	Ala	Gln	Arg	Asp	Asn
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Glu Glu Glu Thr Thr Asp Asp Pro Arg Lys Leu Lys Pro Gly Glu Ile

# SEQUENCE LISTING

<110> BERNSTEIN, Harold S.  
COUGHLIN, Shaun R.

<120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE  
PROGRESSION

<130> UCSF-020/02US

<140> Not Yet Available

<141> 2001-01-08

<150> US 09/156,316

<151> 1998-09-18

<150> US 60/060,688

<151> 1997-09-22

<160> 50

<170> PatentIn Ver. 2.1

<210> 1

<211> 802

<212> PRT

<213> Homo sapiens

<400> 1

Met	Pro	Arg	Ile	Met	Ile	Lys	Gly	Gly	Val	Trp	Arg	Asn	Thr	Glu	Asp
1				5					10					15	

Glu	Ile	Leu	Lys	Ala	Ala	Val	Met	Lys	Tyr	Gly	Lys	Asn	Gln	Trp	Ser
		20						25					30		

Arg	Ile	Ala	Ser	Leu	Leu	His	Arg	Lys	Ser	Ala	Lys	Gln	Cys	Lys	Ala
		35					40					45			

Arg	Trp	Tyr	Glu	Trp	Leu	Asp	Pro	Ser	Ile	Lys	Lys	Thr	Glu	Trp	Ser
	50					55					60				

Arg	Glu	Glu	Glu	Glu	Lys	Leu	Leu	His	Leu	Ala	Lys	Leu	Met	Pro	Thr
65					70					75				80	

Gln	Trp	Arg	Thr	Ile	Ala	Pro	Ile	Ile	Gly	Arg	Thr	Ala	Ala	Gln	Cys
			85						90					95	

Leu	Glu	His	Tyr	Glu	Phe	Leu	Leu	Asp	Lys	Ala	Ala	Gln	Arg	Asp	Asn
		100						105					110		

Glu	Glu	Glu	Thr	Thr	Asp	Asp	Pro	Arg	Lys	Leu	Lys	Pro	Gly	Glu	Ile
	115						120					125			

Asp	Pro	Asn	Pro	Glu	Thr	Lys	Pro	Ala	Arg	Pro	Asp	Pro	Ile	Asp	Met
	130					135					140				

Asp	Glu	Asp	Glu	Leu	Glu	Met	Leu	Ser	Glu	Ala	Arg	Ala	Arg	Leu	Ala
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145		150		155		160
Asn Thr Gln Gly Lys Lys Ala Lys Arg Lys Ala Arg Glu Lys Gln Leu	165		170		175	
Glu Glu Ala Arg Arg Leu Ala Ala Leu Gln Lys Arg Arg Glu Leu Arg	180		185		190	
Ala Ala Gly Ile Glu Ile Gln Lys Lys Arg Lys Arg Lys Arg Gly Val	195		200		205	
Asp Tyr Asn Ala Glu Ile Pro Phe Glu Lys Lys Pro Ala Leu Gly Phe	210		215		220	
Tyr Asp Thr Ser Glu Glu Asn Tyr Gln Ala Leu Asp Ala Asp Phe Arg	225		230		235	240
Lys Leu Arg Gln Gln Asp Leu Asp Gly Glu Leu Arg Ser Glu Lys Glu	245		250		255	
Gly Arg Asp Arg Lys Lys Asp Lys Gln His Leu Lys Arg Lys Lys Glu	260		265		270	
Ser Asp Leu Pro Ser Ala Ile Leu Gln Thr Ser Gly Val Ser Glu Phe	275		280		285	
Thr Lys Lys Arg Ser Lys Leu Val Leu Pro Ala Pro Gln Ile Ser Asp	290		295		300	
Ala Glu Leu Gln Glu Val Val Lys Val Gly Gln Ala Ser Glu Ile Ala	305		310		315	320
Arg Gln Thr Ala Glu Glu Ser Gly Ile Thr Asn Ser Ala Ser Ser Thr	325		330		335	
Leu Leu Ser Glu Tyr Asn Val Thr Asn Asn Ser Val Ala Leu Arg Thr	340		345		350	
Pro Arg Thr Pro Ala Ser Gln Asp Arg Ile Leu Gln Glu Ala Gln Asn	355		360		365	
Leu Met Ala Leu Thr Asn Val Asp Thr Pro Leu Lys Gly Gly Leu Asn	370		375		380	
Thr Pro Leu His Glu Ser Asp Phe Ser Gly Val Thr Pro Gln Arg Gln	385		390		395	400
Val Val Gln Thr Pro Asn Thr Val Leu Ser Thr Pro Phe Arg Thr Pro	405		410		415	
Ser Asn Gly Ala Glu Gly Leu Thr Pro Arg Ser Gly Thr Thr Pro Lys	420		425		430	
Pro Val Ile Asn Ser Thr Pro Gly Arg Thr Pro Leu Arg Asp Lys Leu	435		440		445	
Asn Ile Asn Pro Glu Asp Gly Met Ala Asp Tyr Ser Asp Pro Ser Tyr						

450	455	460
Val Lys Gln Met Glu Arg Glu Ser Arg Glu His Leu Arg Leu Gly Leu 465 470 475 480		
Leu Gly Leu Pro Ala Pro Lys Asn Asp Phe Glu Ile Val Leu Pro Glu 485 490 495		
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Glu Asp Ala Ala Asp Val Asp Ala Arg Lys Gln Ala Ile Arg Asp Ala 515 520 525		
Glu Arg Val Lys Glu Met Lys Arg Met His Lys Ala Val Gln Lys Asp 530 535 540		
Leu Pro Arg Pro Ser Glu Val Asn Thr Glu Ile Leu Arg Pro Leu Asn 545 550 555 560		
Val Glu Pro Pro Leu Thr Asp Leu Gln Lys Ser Glu Glu Leu Ile Lys 565 570 575		
Lys Glu Met Ile Thr Met Leu His Tyr Asp Leu Leu His His Pro Tyr 580 585 590		
Glu Pro Ser Gly Asn Lys Lys Gly Lys Thr Val Gly Phe Gly Thr Asn 595 600 605		
Asn Ser Glu His Ile Thr Tyr Leu Glu His Asn Pro Tyr Glu Lys Phe 610 615 620		
Ser Lys Glu Glu Leu Lys Lys Ala Gln Asp Val Leu Val Gln Glu Met 625 630 635 640		
Glu Val Val Lys Gln Gly Met Ser His Gly Glu Leu Ser Ser Glu Ala 645 650 655		
Tyr Asn Gln Val Trp Glu Glu Cys Tyr Ser Gln Val Leu Tyr Leu Pro 660 665 670		
Gly Gln Ser Arg Tyr Thr Arg Ala Asn Leu Ala Ser Lys Lys Asp Arg 675 680 685		
Ile Glu Ser Leu Glu Lys Arg Leu Glu Ile Asn Arg Gly His Met Thr 690 695 700		
Thr Glu Ala Lys Arg Ala Ala Lys Met Glu Lys Lys Met Lys Ile Leu 705 710 715 720		
Leu Gly Gly Tyr Gln Ser Arg Ala Met Gly Leu Met Lys Gln Leu Asn 725 730 735		
Asp Leu Trp Asp Gln Ile Glu Gln Ala His Leu Glu Leu Arg Thr Phe 740 745 750		
Glu Glu Leu Lys Lys His Glu Asp Ser Ala Ile Pro Arg Arg Leu Glu		

755                      760                      765

Cys Leu Lys Glu Asp Val Gln Arg Gln Gln Glu Arg Glu Lys Glu Leu  
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785                      790                      795                      800

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<210> 2  
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<212> PRT  
<213> Homo sapiens

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Ala Val Met Lys Tyr Gly Lys Asn Gln Trp Ser Arg Ile Ala Ser Leu  
20                      25                      30

Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp  
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Leu Asp Pro  
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<210> 3  
<211> 51  
<212> PRT  
<213> Schizosaccharomyces pombe

<400> 3  
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Ala Val Ser Lys Tyr Gly Lys Asn Gln Trp Ala Arg Ile Ser Ser Leu  
20                      25                      30

Leu Val Arg Lys Thr Pro Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp  
35                      40                      45

Ile Asp Pro  
50

<210> 4  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 4  
Val Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu

1                      5                      10                      15  
 Val Lys Lys Tyr Gly Thr Lys Gln Trp Thr Leu Ile Ala Lys His Leu  
                     20                      25                      30  
 Lys Gly Arg Leu Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu  
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 Asn Pro  
                     50

<210> 5  
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 <213> Homo sapiens

<400> 5  
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 Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Leu Ile Ala Lys His Leu  
                     20                      25                      30  
 Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu  
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 Asn Pro  
                     50

<210> 6  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 6  
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 Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Val Ile Ala Lys His Leu  
                     20                      25                      30  
 Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu  
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 Asn Pro  
                     50

<210> 7  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 7  
 Pro Leu Lys Gly Gly Leu Asn Thr Pro Leu His Glu Ser Asp Phe Ser

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Gly Val Thr Pro Gln Arg Gln Val Val Gln Thr Pro Asn Thr Val Leu	20	25	30
Ser Thr Pro Phe Arg Thr Pro Ser Asn Gly Ala Glu Gly Leu Thr Pro	35	40	45
Arg Ser Gly Thr Thr Pro Lys Pro Val Ile Asn Ser Thr Pro Gly Arg	50	55	60
Thr Pro Leu Arg Asp Lys Leu Asn Ile Asn Pro Glu Asp Gly Met Ala	65	70	75
Asp Tyr Ser Asp Pro Ser Tyr Val Lys Gln Met Glu Arg Glu Ser Arg	85	90	95
Glu His Leu Arg Leu Gly Leu Leu Gly Leu Pro Ala Pro Lys Asn Asp	100	105	110
Phe Glu Ile Val Leu Pro Glu Asn Ala Glu Lys	115	120	

<210> 8  
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 <212> PRT  
 <213> Schizosaccharomyces pombe

<400> 8
Ser Val Thr Ile Glu Val Arg Asn Gln Leu Met Asn Arg Glu Gln Ser
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Ser Leu Leu Gly Gln Glu Ser Ile Pro Leu Gln Pro Gly Gly Thr Gly
20 25 30
Tyr Thr Gly Val Thr Pro Ser His Ala Ala Asn Gly Ser Ala Leu Ala
35 40 45
Ala Pro Gln Ala Thr Pro Phe Arg Thr Pro Arg Asp Thr Phe Ser Ile
50 55 60
Asn Ala Ala Ala Glu Arg Ala Gly Arg Leu Ala Ser Glu Arg Glu Asn
65 70 75 80
Lys Ile Arg Leu Lys Ala Leu Arg Glu Leu Leu Ala Lys Leu Pro Lys
85 90 95
Pro Lys Asn Asp Tyr Glu Leu Met Glu Pro Arg
100 105

<210> 9  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 9

Pro Val Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Leu Asn Phe Trp  
1 5 10 15

Asn Lys Gln Asp Thr Leu Glu Leu Glu Ser Pro Ser Leu Thr Ser Thr  
20 25 30

Pro Val Cys Ser Gln Lys Val Val Val Thr Thr Pro Leu His Arg Asp  
35 40 45

Lys Thr Pro Leu His Gln Lys His Ala Ala Phe Val Thr Pro Asp Gln  
50 55 60

Lys Tyr Ser Met Asp Asn Thr Pro His Thr Pro Thr Pro Phe Lys Asn  
65 70 75 80

Ala Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr Pro His Leu Glu  
85 90 95

Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly Ile Glu Leu Ile  
100 105 110

Ile Glu Asp Asp Ile Arg Pro  
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<210> 10

<211> 123

<212> PRT

<213> Homo sapiens

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Ile Leu Arg Lys Lys Arg Lys Met Arg Val Gly His Ser Pro Gly Ser  
1 5 10 15

Glu Leu Arg Asp Gly Ser Leu Asn Asp Gly Gly Asn Met Ala Leu Lys  
20 25 30

His Thr Pro Leu Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Phe Asn  
35 40 45

Thr Cys Pro Gly Asn Glu Gln Leu Asn Ile Glu Asn Pro Ser Phe Thr  
50 55 60

Ser Thr Pro Ile Cys Gly Gln Lys Ala Leu Ile Thr Thr Pro Leu His  
65 70 75 80

Lys Glu Thr Thr Pro Lys Asp Gln Lys Glu Asn Val Gly Phe Arg Thr  
85 90 95

Pro Thr Ile Arg Arg Ser Ile Leu Gly Thr Pro Arg Thr Pro Thr Pro  
100 105 110

Phe Lys Asn Ala Leu Ala Ala Gln Glu Lys Lys  
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<210> 11  
 <211> 2837  
 <212> DNA  
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<400> 11  
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 agggggggcgt atggaggaat accgaggatg aaattctgaa agcagcggta atgaaatatg 180  
 ggaaaaatca gtggtctagg attgcctcat tgctgcatag aaaatcagca aagcagtgcga 240  
 aagccagatg gtatgaatgg ctggatccaa gcattaagaa gacagaatgg tccagagaag 300  
 aagaggaaaa actcttcgac ttggccaagt tgatgccaac tcagtggagg accattgctc 360  
 caatcattgg aagaacagcg gcccagtgtc tagaacta tgaatttctt ctggataaag 420  
 ctgccccaaag agacaatgaa gaggaacaa cagatgatcc acgaaaactt aaacctggag 480  
 aaatagatcc aaatccagaa acaaaaccag cgcggcctga tccaattgat atggatgagg 540  
 atgaacttga gatgctttct gaagccagag cccgcttggc taatactcag ggaaagaagg 600  
 ccaagaggaa agcaagagag aaacaattgg aagaagcaag acgtcttgcg gccctccaaa 660  
 aaagaagaga acttcgagca gctggcatag aaattcagaa gaaaagaaaa aggaagagag 720  
 gagttgatta taatgccgaa atcccatttg aaaaaaagcc tgccttgggt ttttatgata 780  
 cttctgagga aaactaccaa gctcttgacg cagatttcag gaaattaaga caacaggatc 840  
 ttgatgggga gctaagatct gaaaaagaag gaagagatag aaaaaaagac aaacagcatt 900  
 tgaaaaggaa aaaagaatct gatttaccat cagctattct tcaaactagt ggtgtttctg 960  
 aatttactaa aaagagaagc aaactagtac ttccctgccc tcagatttca gatgcagaac 1020  
 tccaggaagt tgtaaaagta ggccaagcga gtgaaattgc acgtcaaaact gccgaggaat 1080  
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 gcgttgctct tagaacacca cgaacaccag cttcccagga cagaattctg caggaagccc 1200  
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 tagagtgtct aaaagaagac gttcagcgac aacaagaaag agaaaaggaa cttcaacata 2460  
 gatatgctga tttgctgctg gagaaagaga ctttaaagtc aaaattctga agtacagttt 2520  
 atattctgtc acaggattaa ttaattgccg gttttcatac tctagaaggc tgaaactgat 2580  
 gtttatcttc attgacaaat ttaccacca tctgtgggtt ttcagttgtt tatttttaag 2640  
 gatatcgatc ttacacattc tgtgtataaa gaccttaact ccacaggagc gacattttag 2700  
 agtttaaat aattaaggct tcatctttt agaatgtca tatttgcaaa cttttttagt 2760  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: epitope for M2  
monoclonal antibody

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<210> 13  
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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 13  
gatttaacat aa 12

<210> 14  
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<220>  
<223> Description of Artificial Sequence: Synthetic

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<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 15  
aataaaatca aaatt 15

<210> 16  
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<212> DNA  
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 <223> n = Any Nucleotide

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<210> 20  
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<220>  
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<210> 21  
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<220>  
 <223> Description of Artificial Sequence: Synthetic

<400> 21  
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<210> 22  
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 <210> 23  
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 <210> 26  
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<400> 34  
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<210> 35  
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<210> 36  
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<220>  
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<220>  
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